

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



10/519017



(43) International Publication Date
5 February 2004 (05.02.2004)

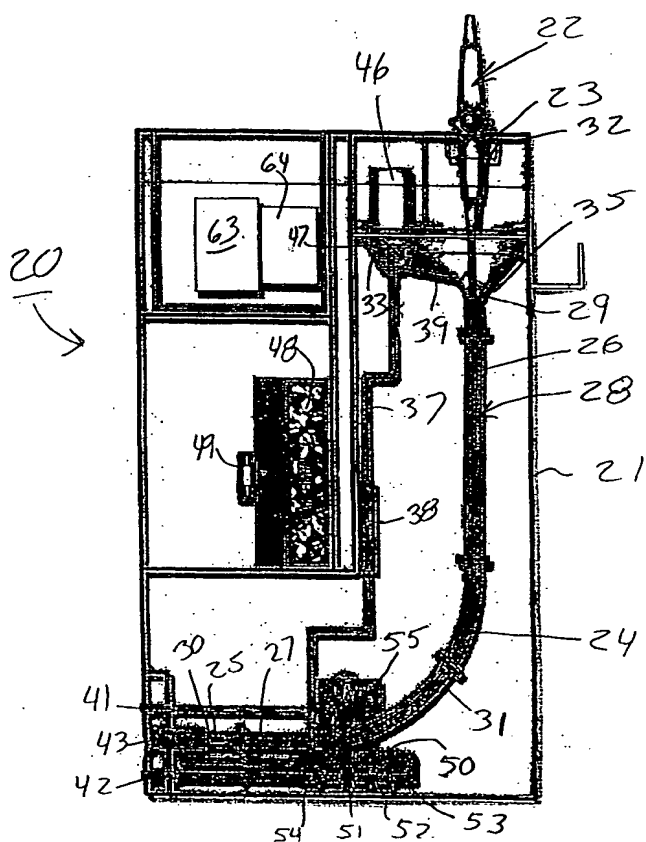
PCT

(10) International Publication Number
WO 2004/011162 A1

- (51) International Patent Classification⁷: **B08B 9/02**, A61L 9/00, 2/00, A61B 8/00, G05D 7/06
- (21) International Application Number:
PCT/US2003/019784
- (22) International Filing Date: 23 June 2003 (23.06.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/393,174 1 July 2002 (01.07.2002) US
- (71) Applicants and
(72) Inventors: **COLES, Philip, Robert** [US/US]; 98 Old Ponsett Road, P.O. Box 223, Haddam, CT 06437 (US).
DOBBYN, Gregory, John [US/US]; 15104 Brogden Road, Creedmoor, NC 27522 (US).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (74) Agent: **STOLTZ, Melvin, I.**; 51 Cherry Street, Milford, CT 06460 (US).
- Published:
— with international search report

[Continued on next page]

(54) Title: TRANSESOPHAGEAL ULTRASONIC PROBE DISINFECTANT SYSTEMS



(57) Abstract: By providing a single house (21) which incorporates an elongated probe (22) receiving zone interconnected to a pump member (55), a plurality of automated valves (51-54), a disinfectant dispensing chamber (20), a water supply (41), and a control system for automatically cycling each of the components to achieve the desired result, a fully automated disinfection system (20) for transesophageal ultrasonic probes is achieved. In accordance with the present invention, a simple, easily employed, convenient, fully integrated system (20) is attained for quickly and easily receiving the transesophageal ultrasonic probe in its entirety, supporting the electronic bearing head portion independently from the disinfection portion, and automatically performing various disinfection and rinse cycles for providing a completely disinfected ultrasonic probe member ready for use.

WO 2004/011162 A1

Best Available Copy